Application No.: 09/763,515

Docket No.: 21900-00021-US

AMENDMENTS TO THE CLAIMS

Claims 1-9 cancelled.

10. (Currently Amendment) A security thread comprising:

a core member having a fiber made of a soft magnetic material having permeability of 1000 or more, or a fiber made of a soft magnetic material having permeability of 1000 or more and a core thread; and

a cover member made of a nonmetal material to cover covering said core member.

11. (Currently Amendment) A security thread comprising:

a core member having a fiber made of a soft magnetic material having permeability of 1000 or more, or a fiber made of a soft magnetic material having permeability of 1000 or more and a core thread;

a member disposed to be in contact with contacting said core member and made of a semi-hard magnetic material which can deactivate the magnetic characteristic of the soft magnetic material; and

a cover member made of a nonmetal material to cover covering said core member and said member made of said semi-hard magnetic material.

12. (Currently Amendment) A security thread comprising:

a core member having a fiber made of a soft magnetic material having permeability of 1000 or more, or a fiber made of a soft magnetic material having permeability of 1000 or more and a core thread;

a thermal welding thread disposed to be in contact with contacting said core member; and

a cover member made of a nonmetal material to cover <u>covering</u> said core member and said thermal welding thread.

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(Currently Amendment) A security thread comprising: 13.

a core member having a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse, or a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse and a core thread; and

a cover member made of a nonmetal material to-cover-covering said core member.

(Currently Amendment) A security thread comprising: 14.

a core member having a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse, or a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse and a core thread;

a member disposed to be in contact with contacting said core member and made of a semi-hard magnetic material which can deactivate the magnetic characteristic of the soft magnetic material; and

a cover member made of a nonmetal material to cover covering said core member and said member made of said semi-hard magnetic material.

(Currently Amendment) A security thread comprising: 15.

a core member having a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse, or a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse and a core thread;

a thermal welding thread disposed to be in contact with contacting said core member; and

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a cover member made of a nonmetal material to cover covering said core member and said thermal welding thread.

- 16. (Previously Presented) The security thread according to any one of claims 10 to 15 wherein said soft magnetic material is made of an amorphous metal.
- 17. (Previously Presented) The security thread according to claim 16, wherein said amorphous metal is mainly made of Co-Fe-Si-B.
- 18. (Previously Presented) The security thread according to any one of claims 10 to 15 wherein said soft magnetic material is made of an amorphous metal ribbon.
- 19. (Previously Presented) The security thread according to claim 18, wherein said amorphous metal ribbon is mainly made of Co-Fe-Si-B.
- 20. (Previously Presented) The security thread according to any one of claims 10 to 15 wherein said soft magnetic material is made of a Permalloy.
- 21. (Previously Presented) The security thread according to any one of claims 10 to 15 wherein said soft magnetic material is made of an Fe-Si based alloy.
- 22. (Previously Presented) A manufacturing method of a security thread comprising the steps of:

preparing a core member having a fiber made of a soft magnetic material having permeability of 1000 or more, or a fiber made of a soft magnetic material having permeability of 1000 or more and a core thread; and

covering a periphery of said core member by a cover member made of a nonmetal material.

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23. (Previously Presented) A manufacturing method of a security thread comprising the steps of:

preparing a core member having a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse, or a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse and a core thread; and

covering a periphery of said core member by a cover member made of a nonmetal material.

24. (Previously Presented) A manufacturing method of a security thread comprising the steps of:

preparing a core member having a fiber made of a soft magnetic material having permeability of 1000 or more, or a fiber made of a soft magnetic material having permeability of 1000 or more and a core thread;

disposing a member to be in contact with said core member and made of a semihard magnetic material which can deactivate the magnetic characteristic of the soft magnetic material; and

covering a periphery of said core member and said member made of said semihard magnetic material by a cover member made of a nonmetal material.

25. (Previously Presented) A manufacturing method of a security thread comprising the steps of:

preparing a core member having a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse, or a fiber made of a soft magnetic material indicating a

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magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse and a core thread;

disposing a member to be in contact with said core member and made of a semihard magnetic material which can deactivate the magnetic characteristic of the soft magnetic material; and

covering a periphery of said core member and said member made of said semihard magnetic material by a cover member made of a nonmetal material.

26. (Previously Presented) A manufacturing method of a security thread comprising the steps of:

preparing a core member having fiber made of a soft magnetic material material permeability of 1000 or more, or a fiber made of a soft magnetic material having permeability of 1000 or more and a core thread;

disposing a thermal welding thread to be in contact with said core member; and covering a periphery of said core member and said thermal welding thread by a cover member made of a nonmetal material.

27. (Previously Presented) A manufacturing method of a security thread comprising the steps of:

preparing a core member having a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse, or a fiber made of a soft magnetic material indicating a magnetic characteristic with a large Barkhausen discontinuity to rapidly cause magnetization reverse and a core thread;

disposing a thermal welding thread to be in contact with said core member; and covering a periphery of said core member and said thermal welding thread by a cover member made of a nonmetal material.